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3.	ment (MCEI) and	as subordinate to the Ministry of Commu was directly supervised by the Main Ada niques within that ministry.	nication Equip- ministration
SIT	E LAYOUT .		50X1-HUM
4.	indicate 160, refer attached sketch	sketch of the institute area /page 9 d the points listed below. ring to the entire group of buildings si	7 on which 50X1-HUM
	Point 1	Entrance Building	· · · · · · · · · · · · · · · · · · ·
		This L-shaped brick building was 11 x with a shed-type roof covered with dark material. It had four entrances during hours, but only two during the day. The day room for guards and a reception of	k gray corrugated g the rush here was also
	Point 2	Warehouses	50X1-HUM
		These brick buildings were 24 x 6 x 2.5 shed-type roofs covered with gray corretter may have been	gated material.
		was stored in it. Electrical component materials required in development work stored in the others	er clothing 50X1-HUM s and other may have been
,	••	STOTE IN THE STREET	50X1-HUM
	Point 3	Administration Building	
"		This E-shaped three-story, red brick by 40 x 20 x 10 meters. Each wing was abounded. The low pitch gable roofs were considered tile. the first floor lathes and drill presses.	out 10 meters covere50X1-HUM
		The second floor housed the h	Dookka and no. 5004 LUINE
·	: [payroll, and procurement offices. The office (Betreuungsbuero) on the third floor.	German Affaira
		Soviet apprentices on this floor	
	Point 4	Filling station	50X1-HUM
		This stucced building, 20 x 8 x 4.5 me low pitch gable roof covered with corresponding institute vehicles. drivers signed for the gasoline. minor vehicle repair facilities were all here.	grated gray ore for the 50X1-HUM
			•

50X1

Point 5 Garage

It was a 40 x 8 x 3 meter brick building with a shed-type roof covered with gray corrugated material. Ten passenger cars (one ZIS and nine Podyeda), ten or more small ZIS trucks, and about five or six 20-passenger busses were housed here. There were calso about ten to fifteen privately owned cars on the grounds at all times.

Point 6 Main Administration Building

It was a three-story stone building covered with 50X1-HUN stucco, 20 x 7 x 10 meters. The gable roof was covered with gray corrugated material. the personnel section (chief was BONDERYEY) was located on the second floor.

Point 7 Building

This was a stuccoed building 18 x 8 x 4 meters, with a high pitch gable roof covered with red tiles. This building housed the polyclinic 50X1-HUM (ambulatorium) until 1950. At that time the polyclinic was moved to the town of Fryazino

Point 8 Bicycle Stand

It was a wooden construction covered with a shed roof.

Point 9 Cantéen

It was a stuccoed stone building, 15 x 15 x 6 meters, two stories, with a red tile roof. The first floor housed the canteen, where food, fruit, cigarettes, and beer could be purchased at all hours. Lunches were served at noon. The second floor housed the zavkom and a general library.

Point 10 Glass Factory

This red brick building, 25 x 12 x 10 meters, had an arched steel girder roof, partly covered with. glass and partly with sheet metal. The German specialists RIEDEL, WAGNER Air Force and HUEBNER 50X1-HUM worked in this building all types of glass used in vacuum tube construction was manufactured here. including a special type of glass 50X1-HUM referred as "CER Glas".

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Point 11 Entrance Building

It was a brick building, 5 x 5 x 3 meters with a low pitch gable roof covered with gray material.

Point 12 Lounge Building

It was a stuccoed brick building, 12 x 4 x 4 meters, with a low pitch gable roof covered with gray 50X1-HUM material. It was completed in spring 1950.

aspirants for the Kandidat degree used this building as a lounge or study room. 50X1-HUM

Point 13 Vacuum Tube Factory

This was a three-story stone building covered with stucco, 60 x 20 x 12 meters, and had a low pitch gable roof covered with gray material. It had large square windows on each floor. The first floor contained vacuum tube production machines such as grid winders (Gitterwickler), tube exhausters (Pumpen), and 48-position metal-glass sealing machines (Einschmelzautomaten). The second floor housed the cathode and drystal detector production departments. Doctors RICHTER and SCHAAFF were here often. The third floor housed the tube development department and laboratory.

50X1-HUM

Point 14 Transformer

It was enclosed in red brick, $1.5 \times 1.5 \times 2$ meters. All cables leading to it were underground.

Point 15 Institute Building

It was a stuccoed brick building, 50 x 18 x 14 meters, four stories, with a low pitch gable roof covered with gray material. See page 10 for sketches of each floor.

Point 16 Hydrogen Production Building

It was a stuccoed stone building. 20 x 10 x 5 meters, with an arch roof.

explosion here in March 1950 and some Soviets told me that a few workers were seriously injured.

Point 17 Magnetron Development Building

It was a stucced brick building, 40 x 12 x 4 meters, with a low pitch gable roof covered with gray material. This building was completed in spring 1949 and the magnetron department moved there from the institute building (point 15). Soviets only were permitted to enter this building. SHAKHOV and ZUSMANOVSKIY had their offices in it.

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Point 18 Building

It was a stuccoed stone building, 40 x 12 x 10 50X1-HUM meters, three stories high, with a low pitch gable roof covered with gray material. Construction was completed in February 1952.

some of the machines used in making tube production machinery would be moved into this 50X1-HUM building.

Point 19 Vacuum Tube Production Machines Building (OKBM)

It was a stuccoed brick building, 40 x 12 x 10 meters, three stories, with a low pitch gable roof covered with gray material. The first floor housed workshops where the machines were made. All kinds of lathes, milling machines, punch presses, etc. were contained in these shops. The second floor housed the design offices. The third floor housed the assembly sections.

Point 20 Building Area

The foundations of a U-shaped building were in 50X1-HUM place at Institute 160, but no further construction was done 50X1-HUM it was the site

of a new building for the institute itself.

Point 21 Coal Dump

Coal was brought here during summer. It was very poor grade; The institute buildings had central heating 50X1-HUM

Point 22 Fence

The institute grounds were surrounded by a twometer high concrete slab wall surmounted by barbed wire. Occasional slabs would fall and it would take days before they were raised again.

Point 23 Railroad Entrance

An iron gate about four meters wide could be opened to permit the entry of trains. A guard armed with a rifle was permanently stationed here.

Point 24 Vehicle Entrance

An iron gate attended by a guard.

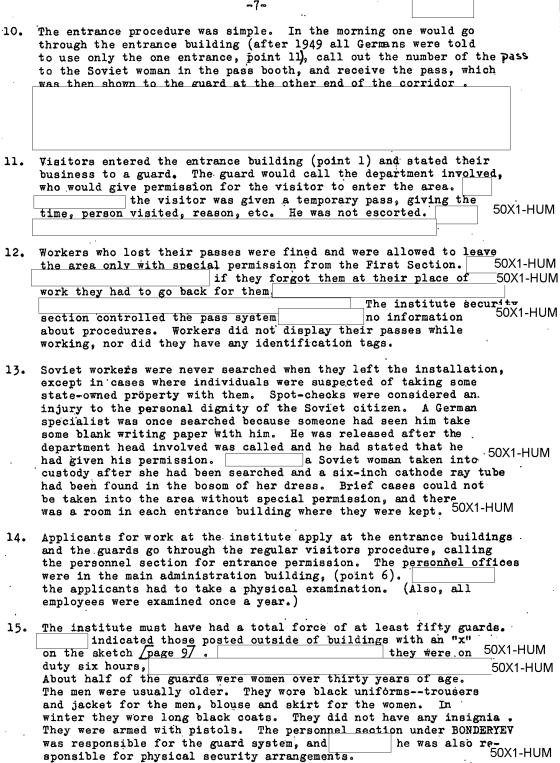
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PUP	PUBLIC UTILITIES	
5٠	5. Electricity available in the institute was 220 volts. not restricted in its use within the institute, but	
	electricity was cut off at times in the town of Fryazino.	Sufficient
	water was on hand at all times. It was provided by the w works in Fryazino. a few of the laboratories	ater-
	provisions for fuel gas the source	mar.
	have been cylinders.	50X1-HUM
MATE	ATERIEL SUPPLIERS	
. 6 . [some resistors and condensers came from Gorki sockets from Kiev and Leningrad, transformer sheets from and measuring instruments from Leningrad.	y, tube 50X1-HUM Moscow,
PLA	PLANT TRANSPORTATION	· .
• .		
7•		were 50X1-HUM
•	in good condition. the railroad tracks shows accurate, although the may have been additional sidings	wn are 50X1-HUM
٠. ٢	The locomotives were electrically operated,	
. L	some steam locomotives in the plant are Some freight cars were usually standing on sidings, partic	50X1-HUM
5.4	near the tube factory (point 13)	
T.AR	LABOR FORCE	
		•
8.		oyees 50X1-HUM
•	working there. in March 1952 the total force was about 3000 employees. The institute had an appr	labor
	system in the workshops (with approximately 200 apprentice	a) The
	IBCTORY employees worked from 0730 to 1630 hours and the	enginoona
	and technicians from 0830 to 1730 hours, six days a week. factory employees had their lunch hour at 1200 hours, and	The 50X1-HUM
• •	ionally went to lunch then instead of at 1300 hours, thus	getting
1.	, two hours for lunch. It was also possible to leave the in	stitute
	grounds with them at 1000 hours, if take the	chance 50X1-HUM
	shops worked three shifts.	me work-50X1-HUM
éria	SECURITY MEASURES	·.
<u> 250</u>	SECURITI MEASURES	,
9•	Institute employees did not carry passes outside of the in Each worker received a pass when he entered the grounds in and relinquished it upon leaving. All passes were identic they had the bearer's name, photograph, date of issue, tse	the morning
:		
•	or other place of work, and the institute stamp. The Germ ists' passes were distinguished by the words Industraniy s (foreign specialist) stamped across them.	pezialist 50X1-HUN
	passes entitling the holder to enter any building	
		*

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50X1-HUM 50X1-HUM

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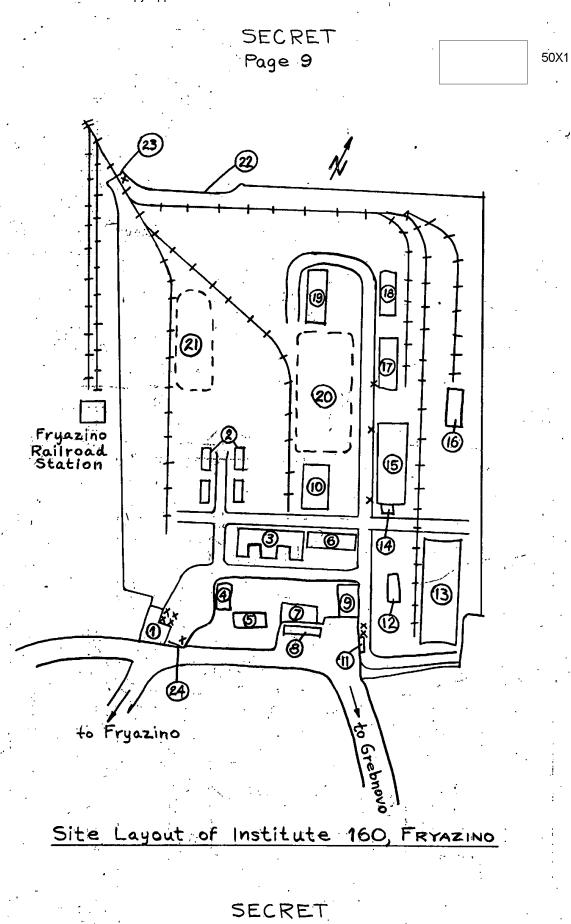


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		e de la compansión de l	<u> </u>	
The installation was sur				
wall surmounted by barbe		ere no watchtow	ers. flood	
lights, or dogs patrolli	ng the area.			
		السالحاليا المعافد المار		
The German specialists a				•
in which they wrote ever				,
book was turned into the				
distributed them to the				
picked them up from the	•			
be taken out of the inst		ne special permi	ssion of	
the department head conc				50X1-HUM
	identi		•	
	ot make any diff			
partment or laboratory c	hief would put h	is own name on	the materi	.al
before it was turned in			;	
	G.,6# 97	*		-50X1-HUM
There were hand fire ext	inguishers in th	ne corridors and	rooms of	_
every building				

50X1-HUM

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